

# Working Together for a Sustainable Future

The idea of a circular economy is inspired by nature. It does not produce waste, but all materials go through a cycle in which they are transformed from waste into nutrients for new life. The fact that valuable resources are used over and over again is the essence of sustainability. As a plastics company, this presents us with enormous challenges. But it also opens up sustainable business models for us and our customers that combine ecology and economy.

Sustainable behavior is an integral part of our corporate DNA. It motivates us every day, as evidenced by our Planet Passionate sustainability program. We pursue twelve measurable goals in four key areas to protect the environment and climate! Read our articles on the [CaPlast Greenhouse Gas Report 2023](#) and the renewed award of the [EcoVadis Platinum Seal](#) on page 4.

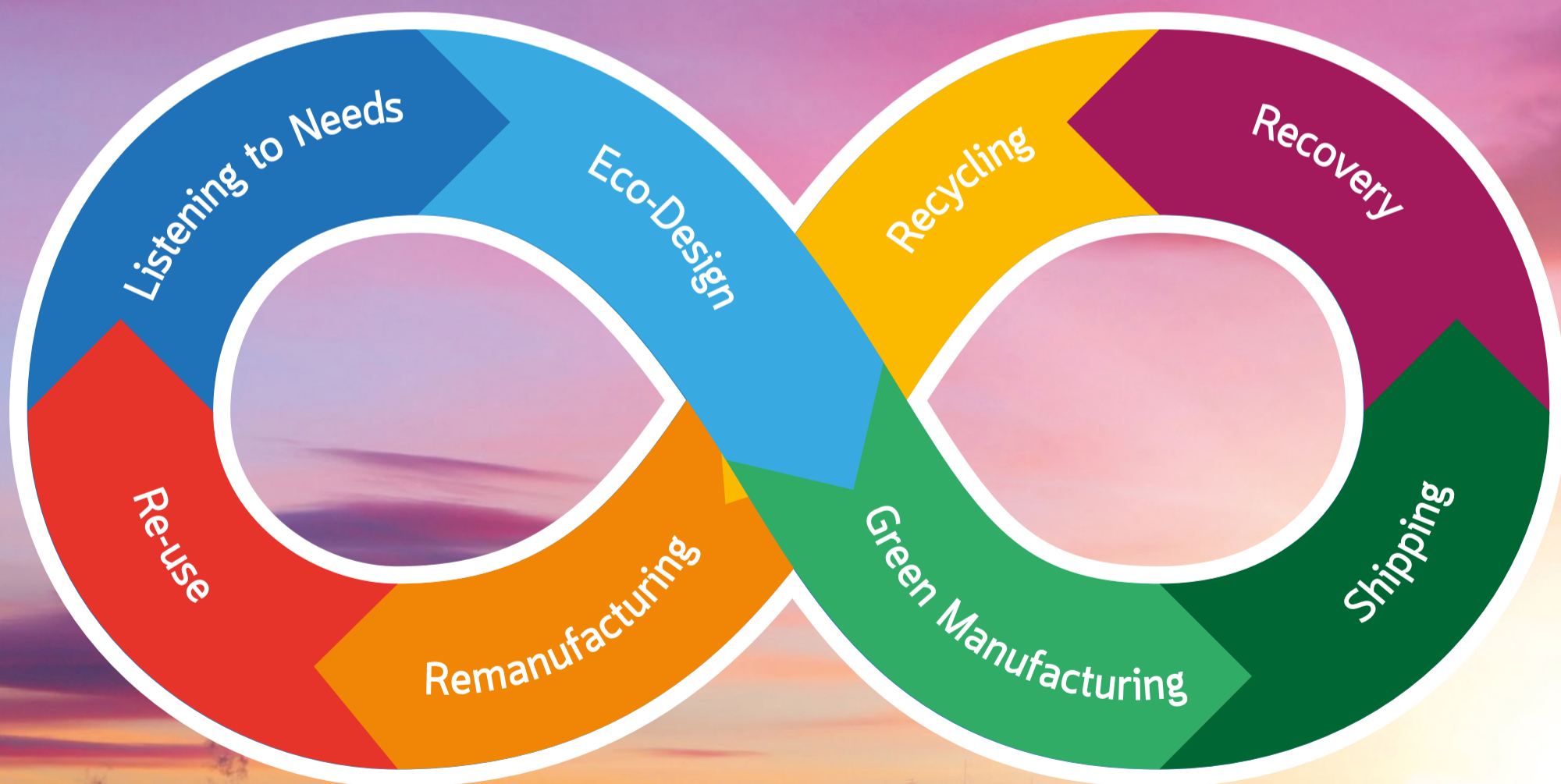
At CaPlast, we have been working for several years on [technical solutions for the circular economy](#), in particular by simplifying the recyclability of our products, using recycled materials and biopolymers.

On pages 2 and 3 we present two examples of new products: [The CaLiner product line](#), which represents our new generation of fully recyclable high-performance tarps, and our [CaVap Eco R ecological, recyclable vapor retarders](#), which consist of ~ 50 percent recycled materials.

We know this from our own experience: The transition to a circular economy must be considered holistically and solved by all links in the cycle. We therefore invite you to get involved and to talk to us. We look forward to supporting you in the implementation of your circular economy strategy. Simply make an appointment at [sales@caplast.de](mailto:sales@caplast.de)!

Your CaPlast Team

## Circular Economy Made Possible





## CaLiner High Performance Tarpaulins

100% recyclable and long lasting

We have optimized our CaLiner fabric tarpaulins in a sustainable way: The structure is based on pure polyolefins throughout, making it fully recyclable. In addition, CaLiners are easy to process, stain resistant, UV stable, flame retardant and highly tear resistant, meeting key market requirements in one product.

Tarps for greenhouses, agricultural buildings, large tents, dump truck covers, high speed doors, partition systems, pool covers, bulk packaging and many other applications are applications where PVC is the dominant material. However, this material has also disadvantages such as heavy weight, added plasticizers, toxic fumes in the event of fire and costly recycling.

For several years now, CaPlast has been offering a real alternative for a number of classic PVC applications with its CaLiner woven sheet. Our innovative copolymer-coated sheeting scores highly in terms of functionality and recyclability thanks to its revised structure, as the fabrics, including the reinforcing insert, are now 100% pure polyolefin-based, lightweight, flexible and easy to handle.

"We produce CaLiner fabric tarpaulins tailored to individual applications. Variable properties include UV and weather resistance, water resistance, transparency, tear strength, fire resistance and color," explains Key Account Manager Jan van Egten.

### An insight into CaLiner's advantages:

- Pure polyolefin structure
- Simple and easy to recycle, 100% recyclable
- On average approx. 20% lighter than PVC solutions
- Approx. 50% longer life than comparable competitive products
- Good fire resistance and no toxic fumes
- Excellent welding and bonding properties
- Free of plasticizers and solvents
- No volatile organic compounds (VOC)
- Suitable for food contact
- Easy to print and clean
- Robust and high tear resistance
- Temperature stable down to -30 °C
- Easy variation of colours



## CaPlast is Your Partner for Integrated, Sustainable Solutions

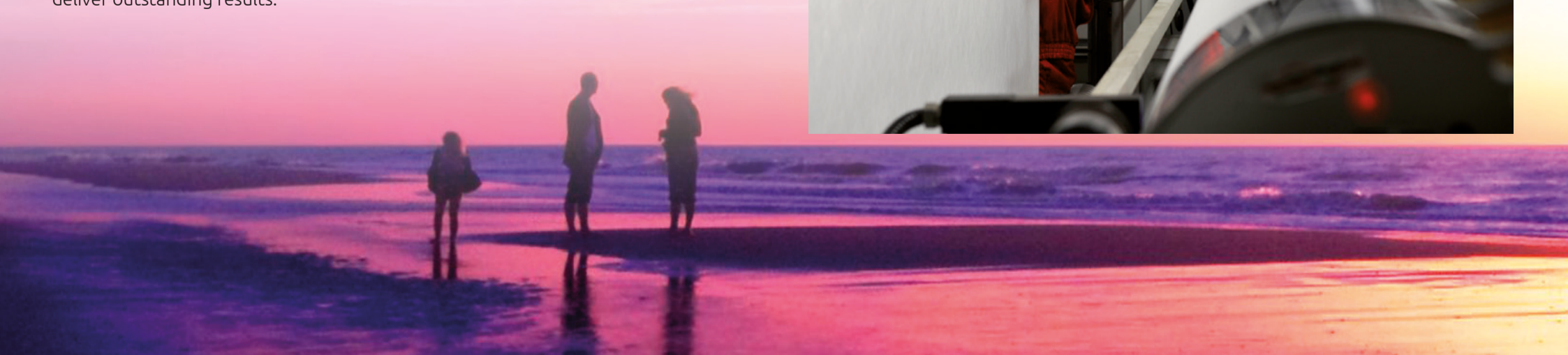
Always by your side from application to approval

It is not only in the automotive industry that recycling, recyclability, freedom from harmful substances and weight reduction are important issues. The construction and medical industries are also looking for sustainable, healthy materials to keep our innovation engine running. We do not use plasticizers or solvents in our products and are already researching the processing of biodegradable and bio-based materials.

For a circular economy, it is essential that our solutions and customised products are fully recyclable. The use of unmixed materials is therefore a top priority, and the use of recycled materials in the design phase is another step forward before we turn our attention to challenges such as the serial use of plastics based on renewable raw materials. Reducing our carbon footprint is at the forefront of every development.

In our technical centre, we test promising materials for their suitability in the application and their properties at the end of the product life cycle. It goes without saying that the new generation of our products must also be durable, fully recyclable and deliver outstanding results.

In our development department and in our modern production facilities, the future is always happening - preferably in close cooperation with our customers. We can help you develop, design and manufacture innovative, sustainable products and assist you with all the necessary approvals. Feel free to contact our sales department at [sales@caplast.de](mailto:sales@caplast.de)!





# New Functional Films for the Roof

## Eco-friendly and future-proof

### CaVap Eco R Ecological Vapor Control Layer (VCL)

Our new ecological VCL contributes to a healthy indoor climate all year round. It also contributes significantly to energy savings by preventing warm air from leaking out and cold air from leaking in. The fixed  $s_d$  value, which regulates water vapor diffusion, makes it easy to calculate the building physics of the system structure. This eliminates the risk of mold growth due to condensation on the insulation and construction.

All CaVap Eco R vapor barriers are made of environmentally friendly and recyclable materials with a recycled content of approximately 50 percent. They have been awarded the EMICODE® EC1PLUS seal for ultra-low emission building materials. This label sets extremely strict limits for volatile organic compounds and describes the limit of what is technically feasible. "Consumers, contractors and architects can be sure that EMICODE products guarantee maximum health and environmental protection," says Product Manager Rayc Wulst.



### Premium Underlay CaTop UD 360

More and more roofs are being used to generate electricity and heat from solar energy. For all their benefits, PV and solar thermal systems also place greater mechanical loads on the roof. The new CaTop UD 360 Premium welding membrane takes this development into account. According to the German ZVDH, it meets the requirements for extended applications (UDB-eA).

This high-quality product is a future-proof solution for all demanding roof coverings, even if a PV and solar system is not planned from the outset. It is characterized by excellent UV resistance during system installation, higher load-bearing capacity during foot traffic, high permeability and a permanent high temperature resistance.

### CaSec Protect 70 Transparent Membrane for Temporary Protection

Our new fully self-adhesive membrane provides temporary protection for people and materials - especially wooden ceilings and structures - during transportation, installation and construction. It provides greater safety during construction and better orientation on the roof due to its non-slip and transparent design. Markings, connectors and openings in the ceiling remain visible. The full-surface self-adhesive nature of the membrane allows for efficient installation. It is approved for up to 12 weeks outdoor exposure.



## CaPlast Greenhouse Gas Report 2023

Our responsibility to the environment, society and our employees

We believe it is our duty to help preserve the natural world for future generations. To measure our progress in climate protection, we collect key figures on the use of natural resources, waste prevention and recycling rates, and energy consumption. This enables us to systematically assess the impact of our actions. Unfortunately, the quality of data from many of our suppliers is poor and the process industry has a lot of catching up to do.

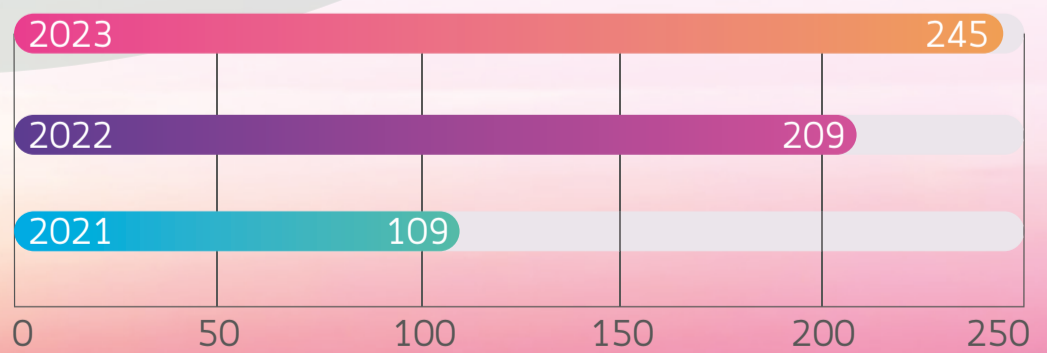
**Scope 1: Our direct greenhouse gas emissions have decreased slightly over the last two years. They account for < 1%.**

**Scope 2: Our indirect greenhouse gas emissions have been reduced by 1200 tons of CO<sub>2</sub>e through the exclusive use of green energy sources.**

**Scope 3: Over the last two years we have reduced our indirect greenhouse gas emissions by 1400 tons of CO<sub>2</sub>e. The main drivers are product mix and distribution effects, and the use of alternative raw materials with a better CO<sub>2</sub>e balance.**

More than 95% of the raw materials we use contribute to our carbon footprint. This makes the use of recycled raw materials as important as these examples show: Our use of recycled nonwovens has increased by 123% over the last two years, which is a threefold increase in the use of recycled nonwovens over the last two years. In the area of transport-covers for the automotive industry, the first Eco generation has reduced the CO<sub>2</sub>e footprint by around 20%. By switching completely to recycled materials, we can reduce this to 50%. Our UV 200 FR facade membrane has also become more sustainable. In raw materials alone, the CO<sub>2</sub>e has been reduced by 41%. For the next generation, the reduction will be 75%, with the same high level of quality.

### Use of 100% recycled nonwoven



Figures in thousands of running meters



## EcoVadis Sustainability Rating

### Platinum status for the second year in a row

The EcoVadis Sustainability Rating 2023 has once again placed us in the top 1% of all companies assessed.

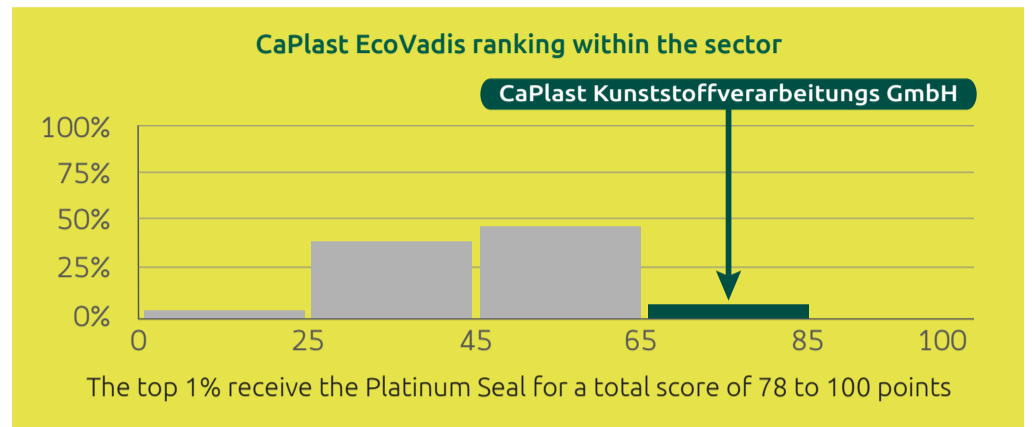
It is our belief that companies that are serious about sustainability must benchmark themselves against others and have their efforts externally and independently assessed. That is why we have had our sustainability management assessed by EcoVadis since 2020.

EcoVadis is the world's largest provider of sustainability ratings. We use the independent expertise to put our efforts to the test and compare ourselves with all companies rated by EcoVadis. The EcoVadis ratings have been produced for more than 130,000 companies in over 220 sectors in more than 180 countries.



This gives us a truly global benchmark of our performance in the areas of environment, ethics, labour and human rights, and sustainable procurement. The EcoVadis rating also has a key benefit for our business partners: We can document our sustainability performance and make it transparent.

Our excellent performance is not a reason to rest on our laurels, but rather an incentive to be even more sustainable in our product development, production and supplier selection.



## Facade Membrane

### Aesthetic, Ecological and Flame Retardant

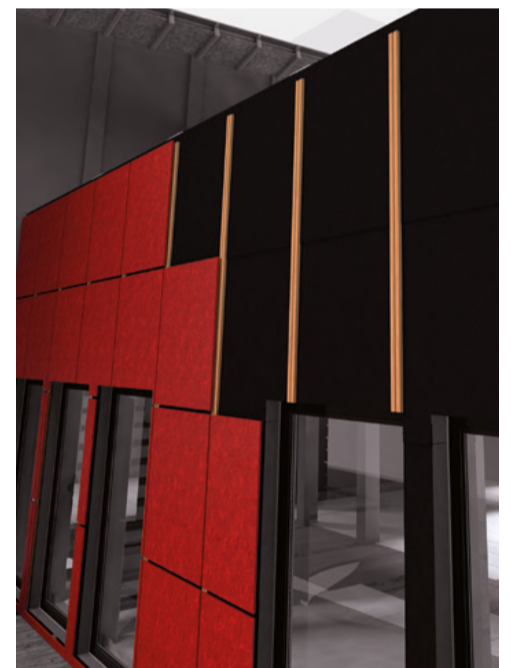
The new generation of our universally applicable, diffusion-open CaWrap UV 200 FR facade membrane offers the building envelope comprehensive protection against UV radiation, moisture, snow, rain and wind thanks to its innovative structure. It is also significantly more climate-friendly than the previous generation: By changing the raw material composition, we were able to reduce CO<sub>2</sub> emissions by 41%.

For demanding facade constructions, especially for open facades, CaPlast offers the right high-performance CaWrap UV 200 FR membrane. With a maximum joint ratio of 40% and a clear joint width of up to 50 mm, the facade membrane is suitable for ventilated curtain walls, natural stone facades, wood facades, ceramic facades, sheet metal facades, large and small format facade claddings.

It not only meets the highest demands in terms of appearance, stability, waterproofing, permeability and durability, but also scores highly in terms of fire performance. CaWrap UV 200 FR meets the criteria of building material class B-s1 d0 according to EN 13501-1 and thus supports efficient and reliable fire protection of ventilated curtain wall systems.

#### CaWrap UV 200 FR features:

- Building Material Class B-s1 d0
- High UV resistance
- High vapor permeability
- Protects insulation from drifting snow and driving rain
- Reliable drainage of accumulated moisture
- Trickling protection with mineral insulation
- Windproof
- Black surface
- Quick and inexpensive to install
- Resistant to oils and detergents



## We are Planet Passionate!

#### Employee commitment around the world

"Since we became part of Kingspan, our sustainability and circular economy goals have received a huge boost," says CaPlast Managing Director Frederik Schaefer. Through its 10-year Planet Passionate program, the parent company is setting the standard for sustainability in four key areas: Energy, Carbon, Circular Economy and Water. As part of the Planet Passionate community, we fully support these goals.

CaPlast and Kingspan teams around the world are involved in countless activities, large and small, such as fundraising, beekeeping, reforestation and tree planting campaigns, clean-ups, art competitions, sponsorships and partnerships with charities.

The Mission: "By making a difference locally, we envision a world powered by renewable energy with zero carbon emissions, sustainable water use, and protection of the earth's precious resources through reduction, reuse and recycling. On a global scale, we have partnered with GOAL, the international humanitarian organization, to develop critical health and education infrastructure with sustainability at its core.

We are already on track to reduce carbon emissions from our CaPlast production, as demonstrated by our Scope 2 results. We are also on track to halve the carbon intensity of our primary supply chains. If you want to be inspired, visit [kingspan.com](http://kingspan.com). There you will find the latest Planet Passionate 2023 report.

